

Ceci est le fichier de test de xstring.

Toutes les situations ne sont pas envisagées, mais au moins un grand nombre ! Les macros sont examinées dans l'ordre logique du code.

Lorsque le résultat contient des espaces ou peut conduire à des doutes, il sera entouré de "||", étant entendu que "||" est une chaîne vide.

Le mode \fullexpandarg

Le test \IfSubStr

```
\IfSubStr{abcdef}{cd}{vrai}{faux} vrai
\IfSubStr{a b c d }{b c}{vrai}{faux} vrai
\IfSubStr{a b c d }{bc}{vrai}{faux} faux
\IfSubStr{abcdef}{}{vrai}{faux} faux
\IfSubStr{a}{a}{vrai}{faux} vrai
\IfSubStr{aaaa}{aa}{vrai}{faux} vrai
\IfSubStr{a}{aa}{vrai}{faux} faux
\IfSubStr{éàèï}{à}{vrai}{faux} vrai
\IfSubStr{éàèï}{ù}{vrai}{faux} faux
\IfSubStr{ÉÀÇ}{Ç}{vrai}{faux} vrai
\IfSubStr{a}{}{vrai}{faux} faux
\IfSubStr{}{a}{vrai}{faux} faux
\IfSubStr{}{}{vrai}{faux} faux
\IfSubStr[2]{abaca}{a}{vrai}{faux} vrai
\IfSubStr[3]{abaca}{a}{vrai}{faux} vrai
\IfSubStr[4]{abaca}{a}{vrai}{faux} faux
\IfSubStr[-2]{abaca}{a}{vrai}{faux} faux
```

Le test \IfBeginWith

```
\IfBeginWith{abcdef}{adc}{vrai}{faux} faux
\IfBeginWith{abcdef}{abcd}{vrai}{faux} vrai
\IfBeginWith{ a b c }{ a}{vrai}{faux} vrai
\IfBeginWith{a b c d}{ab}{vrai}{faux} faux
\IfBeginWith{a}{a}{vrai}{faux} vrai
\IfBeginWith{a}{aa}{vrai}{faux} faux
\IfBeginWith{éàèï}{è}{vrai}{faux} faux
\IfBeginWith{éàèï}{éà}{vrai}{faux} vrai
\IfBeginWith{ÉÀÇ}{É}{vrai}{faux} vrai
\IfBeginWith{a}{}{vrai}{faux} faux
\IfBeginWith{}{a}{vrai}{faux} faux
\IfBeginWith{}{}{vrai}{faux} faux
```

Le test \IfEndWith

```
\IfEndWith{abcdef}{ab}{vrai}{faux} faux
\IfEndWith{abcdef}{f}{vrai}{faux} vrai
\IfEndWith{ a b c }{c}{vrai}{faux} faux
\IfEndWith{ a b c }{ }{vrai}{faux} vrai
\IfEndWith{a}{a}{vrai}{faux} vrai
\IfEndWith{a}{aa}{vrai}{faux} faux
\IfEndWith{éàèï}{è}{vrai}{faux} faux
\IfEndWith{éàèï}{í}{vrai}{faux} vrai
\IfEndWith{ÉÀÇ}{Ç}{vrai}{faux} vrai
\IfEndWith{a}{}{vrai}{faux} faux
\IfEndWith{}{a}{vrai}{faux} faux
\IfEndWith{}{}{vrai}{faux} faux
```

Le test \IfSubStrBefore

```
\IfSubStrBefore{abcdef}{b}{e}{vrai}{faux} vrai
\IfSubStrBefore{abcdef}{e}{c}{vrai}{faux} faux
\IfSubStrBefore{ a b c }{ }{b}{vrai}{faux} faux
\IfSubStrBefore{ a b c }{ b }{c}{vrai}{faux} vrai
\IfSubStrBefore{abcdef}{z}{a}{vrai}{faux} faux
\IfSubStrBefore{abcdef}{y}{z}{vrai}{faux} faux
```

```

\IfSubStrBefore{abcdef}{a}{z}{vrai}{faux} faux
    \IfSubStrBefore{aaa}{a}{aa}{vrai}{faux} faux
\IfSubStrBefore{abcdef}{a}{a}{vrai}{faux} faux
    \IfSubStrBefore{éàèï}{à}{ï}{vrai}{faux} vrai
    \IfSubStrBefore{éàèï}{é}{à}{vrai}{faux} faux
    \IfSubStrBefore{ÉÀÇ}{Ç}{É}{vrai}{faux} faux
        \IfSubStrBefore{a}{a}{a}{vrai}{faux} faux
        \IfSubStrBefore{}{a}{b}{vrai}{faux} faux
        \IfSubStrBefore{a}{a}{a}{vrai}{faux} faux
        \IfSubStrBefore{}{a}{a}{vrai}{faux} faux
            \IfSubStrBefore{}{a}{a}{vrai}{faux} faux
\IfSubStrBefore[1,1]{abacada}{d}{a}{vrai}{faux} faux
\IfSubStrBefore[1,2]{abacada}{d}{a}{vrai}{faux} faux
\IfSubStrBefore[1,3]{abacada}{d}{a}{vrai}{faux} faux
\IfSubStrBefore[1,4]{abacada}{d}{a}{vrai}{faux} vrai
\IfSubStrBefore[2,1]{maman papa}{a}{p}{vrai}{faux} vrai
\IfSubStrBefore[2,2]{maman papa}{a}{p}{vrai}{faux} vrai
\IfSubStrBefore[4,2]{maman papa}{a}{p}{vrai}{faux} faux

```

Le test \IfStrBehind

```

\IfSubStrBehind{abcdef}{b}{e}{vrai}{faux} faux
\IfSubStrBehind{abcdef}{e}{c}{vrai}{faux} vrai
\IfSubStrBehind{ a b c }{ b }{vrai}{faux} faux
\IfSubStrBehind{ a b c }{ c }{ a }{vrai}{faux} faux
    \IfSubStrBehind{abcdef}{z}{a}{vrai}{faux} faux
    \IfSubStrBehind{abcdef}{y}{z}{vrai}{faux} faux
    \IfSubStrBehind{abcdef}{a}{z}{vrai}{faux} faux
        \IfSubStrBehind{aaa}{a}{aa}{vrai}{faux} faux
\IfSubStrBehind{abcdef}{a}{a}{vrai}{faux} faux
    \IfSubStrBehind{éàèï}{i}{à}{vrai}{faux} vrai
    \IfSubStrBehind{éàèï}{à}{é}{vrai}{faux} faux
    \IfSubStrBehind{ÉÀÇ}{À}{Ç}{vrai}{faux} faux
        \IfSubStrBehind{a}{a}{a}{vrai}{faux} faux
        \IfSubStrBehind{}{a}{b}{vrai}{faux} faux
        \IfSubStrBehind{a}{a}{a}{vrai}{faux} faux
        \IfSubStrBehind{}{a}{a}{vrai}{faux} faux
            \IfSubStrBehind{}{a}{a}{vrai}{faux} faux
\IfSubStrBehind[1,1]{abacada}{c}{a}{vrai}{faux} faux
\IfSubStrBehind[1,2]{abacada}{c}{a}{vrai}{faux} vrai
\IfSubStrBehind[1,3]{abacada}{c}{a}{vrai}{faux} faux
\IfSubStrBehind[2,1]{maman papa}{a}{p}{vrai}{faux} faux
\IfSubStrBehind[3,1]{maman papa}{a}{p}{vrai}{faux} vrai
\IfSubStrBehind[3,2]{maman papa}{a}{p}{vrai}{faux} faux
\IfSubStrBehind[4,2]{maman papa}{a}{p}{vrai}{faux} vrai

```

Le test \IfInteger

```

\IfInteger{156}{vrai}{faux} vrai
\IfInteger{1.6}{vrai}{faux} faux
\IfInteger{7a5}{vrai}{faux} faux
\IfInteger{+9}{vrai}{faux} vrai
\IfInteger{-15}{vrai}{faux} vrai
    \IfInteger{0}{vrai}{faux} vrai
\IfInteger{-1,2}{vrai}{faux} faux
    \IfInteger{1.}{vrai}{faux} faux
\IfInteger{-00}{vrai}{faux} vrai
    \IfInteger{+}{vrai}{faux} faux
    \IfInteger{-}{vrai}{faux} faux
\IfInteger{.}{vrai}{faux} faux
\IfInteger{}{vrai}{faux} faux

```

Le test \IfDecimal

```

\IfDecimal{6}{vrai}{faux} vrai
\IfDecimal{-78}{vrai}{faux} vrai
\IfDecimal{3.14}{vrai}{faux} vrai
\IfDecimal{3,14}{vrai}{faux} vrai

```

```

\IfDecimal{1..5}{vrai}{faux} faux
\IfDecimal{-9.8}{vrai}{faux} vrai
\IfDecimal{+9.8}{vrai}{faux} vrai
\IfDecimal{-9,8}{vrai}{faux} vrai
\IfDecimal{+9,8}{vrai}{faux} vrai
\IfDecimal{+6.7.}{vrai}{faux} faux
    \IfDecimal{.5}{vrai}{faux} vrai
    \IfDecimal{1.}{vrai}{faux} faux
\IfDecimal{-.99}{vrai}{faux} vrai
\IfDecimal{-5.}{vrai}{faux} faux
\IfDecimal{5a9.}{vrai}{faux} faux
    \IfDecimal{+}{vrai}{faux} faux
    \IfDecimal{-}{vrai}{faux} faux
    \IfDecimal{.}{vrai}{faux} faux
    \IfDecimal{}{vrai}{faux} faux

```

Le test \IfStrEq

```

\IfStrEq{abcdef}{abcdef}{vrai}{faux} vrai
\IfStrEq{a b c}{a b c}{vrai}{faux} vrai
    \IfStrEq{abcd}{abc}{vrai}{faux} faux
        \IfStrEq{aab}{ab}{vrai}{faux} faux
        \IfStrEq{aab}{aa}{vrai}{faux} faux
\IfStrEq{1.2}{1.20}{vrai}{faux} faux
\IfStrEq{3,4}{3.4}{vrai}{faux} faux
    \IfStrEq{ }{ }{vrai}{faux} vrai
        \IfStrEq{}{a}{vrai}{faux} faux
        \IfStrEq{a}{ }{vrai}{faux} faux
    \IfStrEq{}{}{vrai}{faux} vrai

```

Le test \IfEq

```

\IfEq{abcdef}{abcdef}{vrai}{faux} vrai
\IfEq{a b c}{a b c}{vrai}{faux} vrai
    \IfEq{abcd}{abc}{vrai}{faux} faux
        \IfEq{aab}{ab}{vrai}{faux} faux
        \IfEq{aab}{aa}{vrai}{faux} faux
\IfEq{1.2}{1.20}{vrai}{faux} vrai
\IfEq{+1.0000}{1}{vrai}{faux} vrai
    \IfEq{-10}{10}{vrai}{faux} faux
\IfEq{1,2}{1.2}{vrai}{faux} vrai
    \IfEq{.5}{0.5}{vrai}{faux} vrai
    \IfEq{,5}{0,5}{vrai}{faux} vrai
    \IfEq{10}{dix}{vrai}{faux} faux
\IfEq{123}{1a3}{vrai}{faux} faux
    \IfEq{0}{}{vrai}{faux} faux
\IfEq{++10}{+10}{vrai}{faux} faux
\IfEq{-10}{+10}{vrai}{faux} faux
    \IfEq{a}{}{vrai}{faux} faux
    \IfEq{}{a}{vrai}{faux} faux
\IfEq{}{}{vrai}{faux} vrai

```

La macro \StrBefore

```

\StrBefore{abcdef}{e} abc
\StrBefore{abcdef}{a} ||
\StrBefore{abcdef}{z} ||
\StrBefore{a b c d}{c} |a b |
\StrBefore{a b c d}{ } |a|
\StrBefore[2]{a b c d}{ } |a b|
\StrBefore[3]{a b c d}{ } |a b c|
\StrBefore[9]{a b c d}{ } ||
\StrBefore[-7]{a b c d}{ } ||
\StrBefore{abcdef}{Z} ||
\StrBefore{éàèï}{è} éà
\StrBefore[2]{étété}{é} ét
    \StrBefore{ÉÀÇ}{À} É
\StrBefore[1]{aaaaaa}{aa} ||

```

```

\StrBefore[2]{aaaaaa}{aa} aa
\StrBefore[3]{aaaaaa}{aa} aaaa
\StrBefore[4]{aaaaaa}{aa} ||
    \StrBefore{a}{} ||
    \StrBefore{}{a} ||
    \StrBefore{}{ }

```

Mêmes exemples avec l'argument optionnel :

```

\StrBefore{abcdef}{e}[\aa]\aa abc
\StrBefore{abcdef}{a}[\aa]\aa ||
\StrBefore{abcdef}{z}[\aa]\aa ||
\StrBefore{a b c d}{c}[\aa]\aa |a b |
\StrBefore{a b c d}{ }[\aa]\aa |a|
\StrBefore[2]{a b c d}{ }[\aa]\aa |a b|
\StrBefore[3]{a b c d}{ }[\aa]\aa |a b c|
\StrBefore[9]{a b c d}{ }[\aa]\aa ||
\StrBefore[-7]{a b c d}{ }[\aa]\aa ||
\StrBefore{abcdef}{Z}[\aa]\aa ||
\StrBefore{éàèï}{è}[\aa]\aa éà
\StrBefore[2]{étété}{é}[\aa]\aa ét
\StrBefore{ÉÀÇ}{À}[\aa]\aa É
\StrBefore[1]{aaaaaa}{aa}[\aa]\aa ||
\StrBefore[2]{aaaaaa}{aa}[\aa]\aa aa
\StrBefore[3]{aaaaaa}{aa}[\aa]\aa aaaa
\StrBefore[4]{aaaaaa}{aa}[\aa]\aa ||
    \StrBefore{a}{}[\aa]\aa ||
    \StrBefore{}{a}[\aa]\aa ||
    \StrBefore{}{ }[\aa]\aa ||

```

La macro \StrBehind

```

\StrBehind{abcdef}{e} def
\StrBehind{abcdef}{a} |bcdef|
\StrBehind{abcdef}{z} ||
\StrBehind{a b c d}{c} |d|
\StrBehind{a b c d}{ } |b c d|
\StrBehind[2]{a b c d}{ } |c d|
\StrBehind[3]{a b c d}{ } |d|
\StrBehind[9]{a b c d}{ } ||
\StrBehind[-7]{a b c d}{ } ||
\StrBehind{abcdef}{Z} ||
\StrBehind{éàèï}{è} i
\StrBehind{ÉÀÇ}{À} Ç
\StrBehind[1]{aaaaaa}{aa} aaaa
\StrBehind[2]{aaaaaa}{aa} aa
\StrBehind[3]{aaaaaa}{aa} ||
\StrBehind[4]{aaaaaa}{aa} ||
    \StrBehind{a}{} ||
    \StrBehind{}{a} ||
    \StrBehind{}{ } ||

```

Mêmes exemples avec l'argument optionnel :

```

\StrBehind{abcdef}{e}[\aa]\aa def
\StrBehind{abcdef}{a}[\aa]\aa |bcdef|
\StrBehind{abcdef}{z}[\aa]\aa ||
\StrBehind{a b c d}{c}[\aa]\aa |d|
\StrBehind{a b c d}{ }[\aa]\aa |b c d|
\StrBehind[2]{a b c d}{ }[\aa]\aa |c d|
\StrBehind[3]{a b c d}{ }[\aa]\aa |d|
\StrBehind[9]{a b c d}{ }[\aa]\aa ||
\StrBehind[-7]{a b c d}{ }[\aa]\aa ||
\StrBehind{abcdef}{Z}[\aa]\aa ||
\StrBehind{éàèï}{è}[\aa]\aa i
\StrBehind{ÉÀÇ}{À}[\aa]\aa Ç
\StrBehind[1]{aaaaaa}{aa}[\aa]\aa aaaa
\StrBehind[2]{aaaaaa}{aa}[\aa]\aa aa

```

```

\StrBehind[3]{aaaaaa}{aa}[\aa]\aa |||  

\StrBehind[4]{aaaaaa}{aa}[\aa]\aa |||  

\StrBehind{a}{a}[\aa]\aa |||  

\StrBehind{}{a}[\aa]\aa |||  

\StrBehind{}{}[\aa]\aa |||

```

La macro \StrBetween

```

\StrBetween{abcdef}{b}{e} cd  

\StrBetween{aZaaaaZa}{Z}{Z} |||  

\StrBetween[1,2]{aZaaaaZa}{Z}{Z} |aaaa|  

\StrBetween{a b c d}{a}{c} | b |  

\StrBetween{a b c d}{a}{d} |b c|  

\StrBetween{abcdef}{a}{Z} |||  

\StrBetween{abcdef}{Y}{Z} |||  

\StrBetween[2,5]{aAaBaCaDa}{a}{a} |BaCaD|  

\StrBetween[4,1]{ab1ab2ab3ab4ab}{b}{a} |||  

\StrBetween[3,4]{a b c d e f}{ }{ } |d|  

\StrBetween[1,3]{aaaaaa}{aa}{aa} aa  

\StrBetween{éàèï}{é}{ï} àè  

\StrBetween{ÉÀÇ}{É}{Ç} À  

\StrBetween{abcdef}{a}{ } |||  

\StrBetween{abcdef}{ }{f} |||  

\StrBetween{}{a}{b} |||

```

Mêmes exemples avec l'argument optionnel :

```

\StrBetween{abcdef}{b}{e}[\aa]\aa cd  

\StrBetween{aZaaaaZa}{Z}{Z}[\aa]\aa |||  

\StrBetween[1,2]{aZaaaaZa}{Z}{Z}[\aa]\aa |aaaa|  

\StrBetween{a b c d}{a}{c}[\aa]\aa | b |  

\StrBetween{a b c d}{a}{d}[\aa]\aa |b c|  

\StrBetween{abcdef}{a}{Z}[\aa]\aa |||  

\StrBetween{abcdef}{Y}{Z}[\aa]\aa |||  

\StrBetween[2,5]{aAaBaCaDa}{a}{a}[\aa]\aa |BaCaD|  

\StrBetween[4,1]{ab1ab2ab3ab4ab}{b}{a}[\aa]\aa |||  

\StrBetween[3,4]{a b c d e f}{ }{ }[\aa]\aa |d|  

\StrBetween[1,3]{aaaaaa}{aa}{aa}[\aa]\aa aa  

\StrBetween{éàèï}{é}{ï}[\aa]\aa àè  

\StrBetween{ÉÀÇ}{É}{Ç}[\aa]\aa À  

\StrBetween{abcdef}{a}{ }[\aa]\aa |||  

\StrBetween{abcdef}{ }{f}[\aa]\aa |||  

\StrBetween{}{a}{b}[\aa]\aa |||

```

La macro \StrSubstitute

```

\StrSubstitute{abcdef}{c}{ZZ} abZZdef  

\StrSubstitute{aaaaaaaa}{aa}{w} wwwa  

\StrSubstitute[0]{abacada}{a}{.} .b.c.d.  

\StrSubstitute[1]{abacada}{a}{.} .bacada  

\StrSubstitute[2]{abacada}{a}{.} .b.cada  

\StrSubstitute[3]{abacada}{a}{.} .b.c.da  

\StrSubstitute[4]{abacada}{a}{.} .b.c.d.  

\StrSubstitute[5]{abacada}{a}{.} .b.c.d.  

\StrSubstitute{a b c d e}{ }{,} a,b,c,d,e  

\StrSubstitute{a b c d e}{ }{} abcde  

\StrSubstitute{éàèï}{è}{Z} éàZï  

\StrSubstitute{ÉÀÇ}{Ç}{c} ÉÀc  

\StrSubstitute{abcdef}{ }{A} abcdef  

\StrSubstitute{abcdef}{ }{} abcdef  

\StrSubstitute{}{a}{b} |||  

\StrSubstitute{}{}{} |||

```

Mêmes exemples avec l'argument optionnel :

```

\StrSubstitute{abcdef}{c}{ZZ}[\aa]\aa abZZdef  

\StrSubstitute{aaaaaaaa}{aa}{w}[\aa]\aa wwwa  

\StrSubstitute[0]{abacada}{a}{.}[\aa]\aa .b.c.d.  

\StrSubstitute[1]{abacada}{a}{.}[\aa]\aa .bacada

```

```

\StrSubstitute[2]{abacada}{a}{.}[\aa]\aa .b.cada
\StrSubstitute[3]{abacada}{a}{.}[\aa]\aa .b.c.da
\StrSubstitute[4]{abacada}{a}{.}[\aa]\aa .b.c.d.
\StrSubstitute[5]{abacada}{a}{.}[\aa]\aa .b.c.d.
\StrSubstitute{a b c d e}{ }{,}[\aa]\aa a,b,c,d,e
\StrSubstitute{a b c d e}{ }{ }[\aa]\aa abcde
\StrSubstitute{éàèï}{è}{Z}[\aa]\aa éàZï
\StrSubstitute{ÉÀÇ}{Ç}{c}[\aa]\aa ÉÀc
\StrSubstitute{abcdef}{ }{A}[\aa]\aa abcdef
\StrSubstitute{abcdef}{ }{ }[\aa]\aa abcdef
\StrSubstitute{}{a}{b}[\aa]\aa ||
\StrSubstitute{}{ }{ }[\aa]\aa ||

```

La macro \StrDel

```

\StrDel{a1a2a3a4}{a} 1234
\StrDel[2]{a1a2a3a4}{a} 12a3a4
\StrDel[-2]{a1a2a3a4}{a} a1a2a3a4
\StrDel[10]{a1a2a3a4}{a} 1234
\StrDel[3]{a b c d e}{a} b c d e

```

Mêmes exemples avec l'argument optionnel :

```

\StrDel{a1a2a3a4}{a}[\aa]\aa 1234
\StrDel[2]{a1a2a3a4}{a}[\aa]\aa 12a3a4
\StrDel[-2]{a1a2a3a4}{a}[\aa]\aa a1a2a3a4
\StrDel[10]{a1a2a3a4}{a}[\aa]\aa 1234
\StrDel[3]{a b c d e}{a}[\aa]\aa b c d e

```

La macro \StrLen

```

\StrLen{abcdef} 6
\StrLen{a b c} 5
\StrLen{ a b c } 7
\StrLen{a} 1
\StrLen{éàèï} 4
\StrLen{ÉÀÇ} 3
\StrLen{} 0

```

Mêmes exemples avec l'argument optionnel :

```

\StrLen{abcdef}[\aa]\aa 6
\StrLen{a b c}[\aa]\aa 5
\StrLen{ a b c }[\aa]\aa 7
\StrLen{a}[\aa]\aa 1
\StrLen{éàèï}[\aa]\aa 4
\StrLen{ÉÀÇ}[\aa]\aa 3
\StrLen{}[\aa]\aa 0

```

la macro \StrSplit

```

\StrSplit{abcde}{3}{\xx}{\yy}\#\xx\#\quad\#\yy\# #abc# #de#
\StrSplit{abcde}{1}{\xx}{\yy}\#\xx\#\quad\#\yy\# #a# #bcde#
\StrSplit{abcde}{0}{\xx}{\yy}\#\xx\#\quad\#\yy\# ## #abcde#
\StrSplit{abcde}{-5}{\xx}{\yy}\#\xx\#\quad\#\yy\# ## #abcde#
\StrSplit{abcde}{20}{\xx}{\yy}\#\xx\#\quad\#\yy\# #abcde# ##
\StrSplit{a b c}{4}{\xx}{\yy}\#\xx\#\quad\#\yy\# #a b # #c#
\StrSplit{éàçù}{2}{\xx}{\yy}\#\xx\#\quad\#\yy\# #éà# #çù#
\StrSplit{}{3}{\xx}{\yy}\#\xx\#\quad\#\yy\# ## ##

```

la macro \StrMid

```

\StrMid{abcdef}{2}{5} bcde
\StrMid{a b c d}{2}{6} | b c |
\StrMid{abcdef}{4}{2} ||
\StrMid{abcdef}{-4}{3} abc
\StrMid{abcdef}{-4}{-1} ||
\StrMid{abcdef}{-4}{20} abcdef
\StrMid{abcdef}{8}{10} ||
\StrMid{abcdef}{2}{2} b
\StrMid{éàèï}{2}{3} àè

```

```

    \StrMid{ÉÀÇ}{2}{3}  ÀÇ
    \StrMid{aaaaaa}{3}{6} aaaa
    \StrMid{}{4}{5}  ||

```

Mêmes exemples avec l'argument optionnel :

```

    \StrMid{abcdef}{2}{5}[\aa]\aa bcde
    \StrMid{a b c d}{2}{6}[\aa]\aa | b c |
    \StrMid{abcdef}{4}{2}[\aa]\aa ||
    \StrMid{abcdef}{-4}{3}[\aa]\aa abc
    \StrMid{abcdef}{-4}{-1}[\aa]\aa ||
    \StrMid{abcdef}{-4}{20}[\aa]\aa abcdef
    \StrMid{abcdef}{8}{10}[\aa]\aa ||
    \StrMid{abcdef}{2}{2}[\aa]\aa b
    \StrMid{éàèï}{2}{3}[\aa]\aa àè
    \StrMid{ÉÀÇ}{2}{3}[\aa]\aa ÀÇ
    \StrMid{aaaaaa}{3}{6}[\aa]\aa aaaa
    \StrMid{}{4}{5}[\aa]\aa ||

```

La macro \StrGobbleLeft

```

\StrGobbleLeft{abcdef}{3} def
\StrGobbleLeft{a b c d}{3} | c d|
\StrGobbleLeft{abcdef}{-3} abcdef
\StrGobbleLeft{abcdef}{9} ||
\StrGobbleLeft{éàèï}{2} èï
\StrGobbleLeft{ÉÀÇ}{1} ÀÇ
\StrGobbleLeft{aaaaa}{4} a
\StrGobbleLeft{}{2} ||

```

Mêmes exemples avec l'argument optionnel :

```

\StrGobbleLeft{abcdef}{3}[\aa]\aa def
\StrGobbleLeft{a b c d}{3}[\aa]\aa | c d|
\StrGobbleLeft{abcdef}{-3}[\aa]\aa abcdef
\StrGobbleLeft{abcdef}{9}[\aa]\aa ||
\StrGobbleLeft{éàèï}{2}[\aa]\aa èï
\StrGobbleLeft{ÉÀÇ}{1}[\aa]\aa ÀÇ
\StrGobbleLeft{aaaaa}{4}[\aa]\aa a
\StrGobbleLeft{}{2}[\aa]\aa ||

```

La macro \StrGobbleRight

```

\StrGobbleRight{abcdef}{3} abc
\StrGobbleRight{a b c d}{3} |a b |
\StrGobbleRight{abcdef}{-3} abcdef
\StrGobbleRight{abcdef}{9} ||
\StrGobbleRight{éàèï}{2} éà
\StrGobbleRight{ÉÀÇ}{1} ÉÀ
\StrGobbleRight{aaaaa}{4} a
\StrGobbleRight{}{2} ||

```

Mêmes exemples avec l'argument optionnel :

```

\StrGobbleRight{abcdef}{3}[\aa]\aa abc
\StrGobbleRight{a b c d}{3}[\aa]\aa |a b |
\StrGobbleRight{abcdef}{-3}[\aa]\aa abcdef
\StrGobbleRight{abcdef}{9}[\aa]\aa ||
\StrGobbleRight{éàèï}{2}[\aa]\aa èà
\StrGobbleRight{ÉÀÇ}{1}[\aa]\aa ÉÀ
\StrGobbleRight{aaaaa}{4}[\aa]\aa a
\StrGobbleRight{}{2}[\aa]\aa ||

```

La macro \StrLeft

```

\StrLeft{abcdef}{3} abc
\StrLeft{a b c d}{3} |a b|
\StrLeft{abcdef}{-3} ||
\StrLeft{abcdef}{9} |abcdef|
\StrLeft{éàèï}{2} éà
\StrLeft{ÉÀÇ}{1} É

```

```
\StrLeft{aaaaa}{4} aaaa
\StrLeft{}{2} ||
```

Mêmes exemples avec l'argument optionnel :

```
\StrLeft{abcdef}{3}{\aa}\aa abc
\StrLeft{a b c d}{3}{\aa}\aa |a b|
\StrLeft{abcdef}{-3}{\aa}\aa ||
\StrLeft{abcdef}{9}{\aa}\aa |abcdef|
\StrLeft{éàèï}{2}{\aa}\aa éà
\StrLeft{ÉÀÇ}{1}{\aa}\aa É
\StrLeft{aaaaa}{4}{\aa}\aa aaaa
\StrLeft{}{2}{\aa}\aa ||
```

La macro \StrRight

```
\StrRight{abcdef}{3} def
\StrRight{a b c d}{3} |c d|
\StrRight{abcdef}{-3} ||
\StrRight{abcdef}{9} |abcdef|
\StrRight{éàèï}{2} éï
\StrRight{ÉÀÇ}{1} Ç
\StrRight{aaaaa}{4} aaaa
\StrRight{}{2} ||
```

Mêmes exemples avec l'argument optionnel :

```
\StrRight{abcdef}{3}{\aa}\aa def
\StrRight{a b c d}{3}{\aa}\aa |c d|
\StrRight{abcdef}{-3}{\aa}\aa ||
\StrRight{abcdef}{9}{\aa}\aa |abcdef|
\StrRight{éàèï}{2}{\aa}\aa éï
\StrRight{ÉÀÇ}{1}{\aa}\aa Ç
\StrRight{aaaaa}{4}{\aa}\aa aaaa
\StrRight{}{2}{\aa}\aa ||
```

la macro \StrChar

```
\StrChar{abcdef}{5} e
\StrChar{a b c d}{4} ||
\StrChar{a b c d}{7} d
\StrChar{abcdef}{10} ||
\StrChar{abcdef}{-5} ||
\StrChar{}{3} ||
```

Mêmes exemples avec l'argument optionnel :

```
\StrChar{abcdef}{5}{\aa}\aa e
\StrChar{a b c d}{4}{\aa}\aa ||
\StrChar{a b c d}{7}{\aa}\aa d
\StrChar{abcdef}{10}{\aa}\aa ||
\StrChar{abcdef}{-5}{\aa}\aa ||
\StrChar{}{3}{\aa}\aa ||
```

La macro \StrCount

```
\StrCount{abcdef}{d} 1
\StrCount{a b c d}{ } 3
\StrCount{aaaaaa}{aa} 3
\StrCount{étété}{é} 3
\StrCount{abcdef}{Z} 0
\StrCount{éàèï}{é} 1
\StrCount{ÉÀÇ}{Ç} 1
\StrCount{abcdef}{ } 0
\StrCount{}{a} 0
\StrCount{}{} 0
```

Mêmes exemples avec l'argument optionnel :

```
\StrCount{abcdef}{d}{\aa}\aa 1
\StrCount{a b c d}{ }{\aa}\aa 3
\StrCount{aaaaaa}{aa}{\aa}\aa 3
```

```

\StrCount{étété}{é}[\aa]\aa 3
\StrCount{abcdef}{Z}[\aa]\aa 0
\StrCount{éàèï}{é}[\aa]\aa 1
\StrCount{ÉÀÇ}{Ç}[\aa]\aa 1
\StrCount{abcdef}{ }[\aa]\aa 0
\StrCount{}{a}[\aa]\aa 0
\StrCount{}{}[\aa]\aa 0

```

La macro \StrPosition

```

\StrPosition{abcdef}{c} 3
\StrPosition{abcdef}{Z} 0
\StrPosition{a b c d}{ } 2
\StrPosition[3]{a b c d}{ } 6
\StrPosition[8]{a b c d}{ } 0
\StrPosition{étété}{é} 1
\StrPosition[3]{étété}{é} 5
\StrPosition[5]{étété}{é} 0
\StrPosition{aaaaaa}{aa} 1
\StrPosition[2]{aaaaaa}{aa} 3
\StrPosition[3]{aaaaaa}{aa} 5
\StrPosition{éàèï}{è} 3
\StrPosition{ÉÀÇ}{À} 2
\StrPosition{abcdef}{ } 0
\StrPosition{}{a} 0
\StrPosition{}{} 0

```

Mêmes exemples avec l'argument optionnel :

```

\StrPosition{abcdef}{c}[\aa]\aa 3
\StrPosition{abcdef}{Z}[\aa]\aa 0
\StrPosition{a b c d}{ }[\aa]\aa 2
\StrPosition[3]{a b c d}{ }[\aa]\aa 6
\StrPosition[8]{a b c d}{ }[\aa]\aa 0
\StrPosition{étété}{é}[\aa]\aa 1
\StrPosition[3]{étété}{é}[\aa]\aa 5
\StrPosition[5]{étété}{é}[\aa]\aa 0
\StrPosition{aaaaaa}{aa}[\aa]\aa 1
\StrPosition[2]{aaaaaa}{aa}[\aa]\aa 3
\StrPosition[3]{aaaaaa}{aa}[\aa]\aa 5
\StrPosition{éàèï}{è}[\aa]\aa 3
\StrPosition{ÉÀÇ}{À}[\aa]\aa 2
\StrPosition{abcdef}{ }[\aa]\aa 0
\StrPosition{}{a}[\aa]\aa 0
\StrPosition{}{}[\aa]\aa 0

```

La macro \StrCompare

La tolérance normale :

```

\StrCompare{abcdefghijkl}{abc} 0
\StrCompare{A}{A} 0
\StrCompare{éçà}{éçà} 0
\StrCompare{abcdef}{a bd} 2
\StrCompare{ }{ } 0
\StrCompare{}{abcd} 0
\StrCompare{abcd}{ } 0
\StrCompare{123456}{1234} 0
\StrCompare{a b c d}{a bcd} 4
\StrCompare{ }{ } 0
\StrCompare{eee}{eeee} 0
\StrCompare{eeee}{eee} 0
\StrCompare{totutu}{tututu} 2
\StrCompare{abcd}{abyz} 3

```

Mêmes exemples avec l'argument optionnel :

```

\StrCompare{abcdefghijkl}{abc}[\aa]\aa 0
\StrCompare{A}{A}[\aa]\aa 0
\StrCompare{éçà}{éçà}[\aa]\aa 0

```

```

\StrCompare{abcdef}{a bd}[\aa]\aa 2
    \StrCompare{ }{ }[\aa]\aa 0
    \StrCompare{}{abcd}[\aa]\aa 0
    \StrCompare{abcd}{ }[\aa]\aa 0
\StrCompare{123456}{1234}[\aa]\aa 0
\StrCompare{a b c d}{a bcd}[\aa]\aa 4
    \StrCompare{}{}[\aa]\aa 0
    \StrCompare{eee}{eeee}[\aa]\aa 0
    \StrCompare{eeee}{eee}[\aa]\aa 0
\StrCompare{totutu}{tututu}[\aa]\aa 2
\StrCompare{abcd}{abyz}[\aa]\aa 3

```

La tolérance stricte :

```

\StrCompare{abcdefghijkl}{abc} 4
    \StrCompare{A}{A}[\aa]\aa 0
    \StrCompare{éçà}{éçà} 0
\StrCompare{abcdef}{a bd} 2
    \StrCompare{ }{ } 0
    \StrCompare{}{abcd} 1
    \StrCompare{abcd}{ } 1
\StrCompare{123456}{1234} 5
\StrCompare{a b c d}{a bcd} 4
    \StrCompare{}{} 0
    \StrCompare{eee}{eeee} 4
    \StrCompare{eeee}{eee} 4
\StrCompare{totutu}{tututu} 2
\StrCompare{abcd}{abyz} 3

```

Mêmes exemples avec l'argument optionnel :

```

\StrCompare{abcdefghijkl}{abc}[\aa]\aa 4
    \StrCompare{A}{A}[\aa]\aa 0
    \StrCompare{éçà}{éçà}[\aa]\aa 0
\StrCompare{abcdef}{a bd}[\aa]\aa 2
    \StrCompare{ }{ }[\aa]\aa 0
    \StrCompare{}{abcd}[\aa]\aa 1
    \StrCompare{abcd}{ }[\aa]\aa 1
\StrCompare{123456}{1234}[\aa]\aa 5
\StrCompare{a b c d}{a bcd}[\aa]\aa 4
    \StrCompare{}{}[\aa]\aa 0
    \StrCompare{eee}{eeee}[\aa]\aa 4
    \StrCompare{eeee}{eee}[\aa]\aa 4
\StrCompare{totutu}{tututu}[\aa]\aa 2
\StrCompare{abcd}{abyz}[\aa]\aa 3

```

Le mode \noexpandarg

Dans toute la suite sauf si c'est précisé, la commande `\noexpandarg` est activée.

Le test \IfSubStr

```

\noexploregroups
\IfSubStr{1$2$\a{34}\bc5}{2}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{34}{vrai}{faux} faux
\IfSubStr{1$2$\a{34}\bc5}{34}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{\b}{vrai}{faux} faux
\IfSubStr{1$2$\a{34}\bc5}{\bc}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc5}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc5}{vrai}{faux} faux
\IfSubStr[1]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} vrai
\IfSubStr[2]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} vrai
\IfSubStr[3]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} faux
\IfSubStr[4]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} faux

```

```

\exploregroups
\IfSubStr{1$2$\a{34}\bc5}{2}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{34}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{34}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{\b}{vrai}{faux} faux
\IfSubStr{1$2$\a{34}\bc5}{\bc}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc5}{vrai}{faux} vrai
\IfSubStr{1$2$\a{34}\bc5}{\bc5}{vrai}{faux} faux
\IfSubStr[1]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} vrai
\IfSubStr[2]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} vrai
\IfSubStr[3]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} vrai
\IfSubStr[4]{\a1{\a1{\a1}\a2}\a3}{\a}{vrai}{faux} vrai

```

Le test \IfBeginWith

Les tests doivent donner des résultats identiques ci-dessous puisque \IfBeginWith est indifférent au mode d'exploration des groupes !

```

\noexploregroups
\IfBeginWith{{\a}123\b456}{\a}{vrai}{faux} faux
\IfBeginWith{{\a}123\b456}{\a}{vrai}{faux} vrai
\IfBeginWith{{\a1}\b\c\d}{\a}{vrai}{faux} faux
\IfBeginWith{123456}{12}{vrai}{faux} faux
\IfBeginWith{123456}{1}{vrai}{faux} faux
\IfBeginWith{123456}{12}{vrai}{faux} vrai
\exploregroups
\IfBeginWith{{\a}123\b456}{\a}{vrai}{faux} faux
\IfBeginWith{{\a}123\b456}{\a}{vrai}{faux} vrai
\IfBeginWith{{\a1}\b\c\d}{\a}{vrai}{faux} faux
\IfBeginWith{123456}{12}{vrai}{faux} faux
\IfBeginWith{123456}{1}{vrai}{faux} faux
\IfBeginWith{123456}{12}{vrai}{faux} vrai

```

Le test \IfEndWith

Les tests doivent donner des résultats identiques ci-dessous puisque \IfEndWith est indifférent au mode d'exploration des groupes !

```

\noexploregroups
\IfEndWith{\a1\b2{\c3}}{\c3}{vrai}{faux} faux
\IfEndWith{\a1\b2{\c3}}{\c3}{vrai}{faux} vrai
\IfEndWith{\a1\b2{\c3}}{3}{vrai}{faux} faux
\IfEndWith{12345{6}}{56}{vrai}{faux} faux
\IfEndWith{12345{6}}{6}{vrai}{faux} faux
\IfEndWith{12345{6}}{5{6}}{vrai}{faux} vrai
\exploregroups
\IfEndWith{\a1\b2{\c3}}{\c3}{vrai}{faux} faux
\IfEndWith{\a1\b2{\c3}}{\c3}{vrai}{faux} vrai
\IfEndWith{\a1\b2{\c3}}{3}{vrai}{faux} faux
\IfEndWith{12345{6}}{56}{vrai}{faux} faux
\IfEndWith{12345{6}}{6}{vrai}{faux} faux
\IfEndWith{12345{6}}{5{6}}{vrai}{faux} vrai

```

Le test \IfSubStrBefore

```

\noexploregroups
\IfSubStrBefore[1,1]{\a1\ a2\ a3\ b1\ b2\ b3}{2}{\b}{vrai}{faux} vrai
\IfSubStrBefore[2,1]{\a1\ a2\ a3\ b1\ b2\ b3}{2}{\b}{vrai}{faux} faux
\IfSubStrBefore[2,3]{\a1\ a2\ a3\ b1\ b2\ b3}{\a}{\b}{vrai}{faux} vrai
\IfSubStrBefore[1,1]{\a1\ a2\ a3\ b1}{b2\ b3}{2}{\b}{vrai}{faux} faux
\IfSubStrBefore[1,2]{\a1\ a2\ a3\ b1}{b2\ b3}{3}{\b}{vrai}{faux} faux
\exploregroups
\IfSubStrBefore[1,1]{\a1\ a2\ a3\ b1}{b2\ b3}{2}{\b}{vrai}{faux} faux
\IfSubStrBefore[2,1]{\a1\ a2\ a3\ b1}{b2\ b3}{2}{\b}{vrai}{faux} faux
\IfSubStrBefore[2,3]{\a1\ a2\ a3\ b1}{b2\ b3}{\a}{\b}{vrai}{faux} faux
\IfSubStrBefore[1,1]{\a1\ a2\ a3\ b1}{b2\ b3}{2}{\b}{vrai}{faux} faux
\IfSubStrBefore[1,2]{\a1\ a2\ a3\ b1}{b2\ b3}{3}{\b}{vrai}{faux} faux

```

Le test \IfStrBehind

```

\noexploregroups
\IfSubStrBehind[2,1]{\a1\aa\b1\b2\b3}{2}{\b}{vrai}{faux} vrai
\IfSubStrBehind[3,1]{\a1\aa\b1\b2\b3}{\a}{\b}{vrai}{faux} faux
\IfSubStrBehind[1,1]{\a1\aa\b1\b2\b3}{\b}{3}{vrai}{faux} vrai
\IfSubStrBehind[2,1]{\a1\aa\b1\b2\b3}{\b}{3}{vrai}{faux} faux
\IfSubStrBehind[1,1]{\a1\aa\b1\b2\b3}{3}{\b}{vrai}{faux} vrai
\exploregroups
\IfSubStrBehind[2,1]{\a1\aa\b1\b2\b3}{2}{\b}{vrai}{faux} faux
\IfSubStrBehind[3,1]{\a1\aa\b1\b2\b3}{\a}{\b}{vrai}{faux} faux
\IfSubStrBehind[1,1]{\a1\aa\b1\b2\b3}{\b}{3}{vrai}{faux} faux
\IfSubStrBehind[2,1]{\a1\aa\b1\b2\b3}{\b}{3}{vrai}{faux} faux
\IfSubStrBehind[1,1]{\a1\aa\b1\b2\b3}{3}{\b}{vrai}{faux} faux

```

Le test \IfInteger

Dans les exemples ci-dessous, on examine la différence de comportement de la macro `\IfInteger` selon les modes de développement des arguments.

```

\def\nbA{-12}\def\nbB{498}
\def\nbAA{\nbA}\def\nbBB{\nbB}

\fullexpandarg
\IfInteger{\nbA}{vrai}{faux} vrai
\IfInteger{\nbA5\nbA}{vrai}{faux} faux
\IfInteger{\nbA6\nbB}{vrai}{faux} vrai
\IfInteger{\nbAA7\nbBB}{vrai}{faux} vrai

\expandarg
\IfInteger{\nbA}{vrai}{faux} vrai
\IfInteger{\nbA5\nbA}{vrai}{faux} faux
\IfInteger{\nbA6\nbB}{vrai}{faux} faux
\IfInteger{\nbAA7\nbBB}{vrai}{faux} faux

\noexpandarg
\IfInteger{\nbA}{vrai}{faux} faux
\IfInteger{\nbA5\nbA}{vrai}{faux} faux
\IfInteger{\nbA6\nbB}{vrai}{faux} faux
\IfInteger{\nbAA7\nbBB}{vrai}{faux} faux

```

Le test \IfDecimal

Dans les exemples ci-dessous, on examine la différence de comportement de la macro `\IfDecimal` selon les modes de développement des arguments.

```

\def\nbA{-12}\def\nbB{498}
\def\nbAA{\nbA}\def\nbBB{\nbB}

\fullexpandarg
\IfDecimal{\nbA,\nbB}{vrai}{faux} vrai
\IfDecimal{\nbAA.\nbB}{vrai}{faux} vrai
\IfDecimal{\nbB,777}{vrai}{faux} vrai
\IfDecimal{3\nbB,777}{vrai}{faux} vrai
\IfDecimal{\nbB,\nbB}{vrai}{faux} vrai

\expandarg
\IfDecimal{\nbA,\nbB}{vrai}{faux} faux
\IfDecimal{\nbAA.\nbB}{vrai}{faux} faux
\IfDecimal{\nbB,777}{vrai}{faux} vrai
\IfDecimal{3\nbB,777}{vrai}{faux} faux
\IfDecimal{\nbB,\nbB}{vrai}{faux} faux

\noexpandarg
\IfDecimal{\nbA,\nbB}{vrai}{faux} faux
\IfDecimal{\nbAA.\nbB}{vrai}{faux} faux
\IfDecimal{\nbB,777}{vrai}{faux} faux
\IfDecimal{3\nbB,777}{vrai}{faux} faux
\IfDecimal{\nbB,\nbB}{vrai}{faux} faux

```

La macro \StrBefore

```

\noexploregroups
\StrBefore[2]{1\aa\aa\aa\aa\aa\aa}{6\aa}{\aa}9\aa{\aa}[\cmd]
\detokenize\expandafter{\cmd} 1\aa 2
\StrBefore[3]{1\aa\aa\aa\aa\aa\aa}{6\aa}{\aa}9\aa{\aa}[\cmd]

```

```

        \detokenize\expandafter{\cmd} 1\|a 2\|a 3{4\|a 5{6\|a 7}8\|a }9
\StrBefore[4]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
\StrBefore[5]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
\StrBefore[6]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
                                \exploregroups
\StrBefore[2]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 1\|a 2
\StrBefore[3]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 4
\StrBefore[4]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 6
\StrBefore[5]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 4\|a 5{6\|a 7}8
\StrBefore[6]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 1\|a 2\|a 3{4\|a 5{6\|a 7}8\|a }9

```

La macro \StrBehind

```

        \noexploregroups
\StrBehind[2]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 3{4\|a 5{6\|a 7}8\|a }9\|a 0
\StrBehind[3]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 0
\StrBehind[4]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
\StrBehind[5]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
\StrBehind[6]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
                                \exploregroups
\StrBehind[2]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 3{4\|a 5{6\|a 7}8\|a }9\|a 0
\StrBehind[3]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 5{6\|a 7}8\|a
\StrBehind[4]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 7
\StrBehind[5]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
\StrBehind[6]{1\|a2\|a3{4\|a5{6\|a7}8\|a}9\|a0}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 0

```

La macro \StrBetween

La commande \StrBetween opère en mode \noexploregroups, quelque soit le mode d'exploration en cours.

```

\StrBetween[1,3]{\|a1\|a2{3\|a4}5\|a6{7\|a8}9\|a0}{2}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} {3\|a 4}5
\StrBetween[2,3]{\|a1\|a2{3\|a4}5\|a6{7\|a8}9\|a0}{\|a}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 2{3\|a 4}5
\StrBetween[1,3]{\|a1\|a2{3\|a4}5\|a6{7\|a8}9\|a0}{3}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd}
\StrBetween[2,4]{\|a1\|a2{3\|a4}5\|a6{7\|a8}9\|a0}{\|a}{\|a}{[\cmd]}
        \detokenize\expandafter{\cmd} 2{3\|a 4}5\|a 6{7\|a 8}9

```

La macro \StrSubstitute

```

        \noexploregroups
\StrSubstitute{\|a1{2\|a{3\|a4}\|a}\|a5\|a}{\|a}{\X}{[\cmd]}
        \detokenize\expandafter{\cmd} \|X 1{2\|a {3\|a }4\|a }\|X 5\|X
\StrSubstitute[2]{\|a1{2\|a{3\|a4}\|a}\|a5\|a}{\|a}{\X}{[\cmd]}

```

```

\detokenize\expandafter{\cmd} \X 1{2\{a {3\}a }4\{a }\X 5\{a
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{2}{X}}[\cmd] \a 1{2\{a {3\}a }4\{a }\a 5\{a
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}{XXX}}[\cmd] \a 1{2\{a {3\}a }4\{a }\a 5\{a
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}{XXX}}[\cmd] \a 1{2\{a {3\}a }4\{a }\a 5\{a
\StrSubstitute{a1{b1\bgroup c1}\egroup d1}{1}{X}[\cmd] aX{b1\bgroup c1}\egroup dX
\exparegroups
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{\a}{X}}[\cmd] \X 1{2\{X {3\}X }4\{X }\X 5\{X
\StrSubstitute[2]{\a1{2\{a{3\}a}4\{a}\a5\{a}{\a}{X}}[\cmd] \X 1{2\{X {3\}a }4\{a }\a 5\{a
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{2}{X}}[\cmd] \a 1{X\{a {3\}a }4\{a }\a 5\{a
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}{XXX}}[\cmd] \a 1{2\{a XXX4\{a }\a 5\{a
\StrSubstitute{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}{XXX}}[\cmd] \a 1{2\{a {XXX}4\{a }\a 5\{a
\StrSubstitute{a1{b1\bgroup c1}\egroup d1}{1}{X}[\cmd] aX{bX\bgroup cX}\egroup dX
\detokenize\expandafter{\cmd}

```

La macro \StrDel

```

\noexparegroups
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{\a}}[\cmd] 1{2\{a {3\}a }4\{a }5
\detokenize\expandafter{\cmd}
\StrDel[2]{\a1{2\{a{3\}a}4\{a}\a5\{a}{\a}}[\cmd] 1{2\{a {3\}a }4\{a }5\{a
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{2}}[\cmd] \a 1{2\{a {3\}a }4\{a }\a 5\{a
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}}[\cmd] \a 1{2\{a {3\}a }4\{a }\a 5\{a
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}}[\cmd] \a 1{2\{a {3\}a }4\{a }\a 5\{a
\exparegroups
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{\a}}[\cmd] 1{2\{3\}4}5
\StrDel[2]{\a1{2\{a{3\}a}4\{a}\a5\{a}{\a}}[\cmd] 1{2\{3\}a }4\{a }\a 5\{a
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{2}}[\cmd] \a 1{\{a {3\}a }4\{a }\a 5\{a
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}}[\cmd] \a 1{2\{a 4\{a }\a 5\{a
\StrDel{\a1{2\{a{3\}a}4\{a}\a5\{a}{3\}a}}[\cmd] \a 1{2\{a {4\}a }\a 5\{a
\detokenize\expandafter{\cmd}

```

La macro \StrLen

```

\noexparegroups
\StrLen{a1{a2}{\a\b}{a3}a4} 7
\exparegroups
\StrLen{a1{a2}{\a\b}{a3}a4} 10

```

La macro \StrSplit

```

\noexparegroups
\StrSplit{\a{\b{\c\d}\e}\f\g}{2}\xx\yy
\# \detokenize\expandafter{\xx}\# \quad \# \detokenize\expandafter{\yy}\#
\StrSplit{\a{\b{\c\d}\e}\f\g}{3}\xx\yy
\# \detokenize\expandafter{\xx}\# \quad \# \detokenize\expandafter{\yy}\#
\exparegroups

```

```

          \StrSplit{\a{\b{c\d}\e}\f\g}{2}\xx\yy
\n#detokenize\expandafter{\xx}\#\quad\n#detokenize\expandafter{\yy}\#
          \StrSplit{\a{\b{c\d}\e}\f\g}{3}\xx\yy
\n#detokenize\expandafter{\xx}\#\quad\n#detokenize\expandafter{\yy}\#
          \#\c#\#\d#

```

La macro \StrMid

La commande \StrMid opère en mode \noexploregroups, quelque soit le mode d'exploration en cours.

```

\StrMid{\a\b{c\d}\e\f\g\h}{2}{6}[\cmd]
          \detokenize\expandafter{\cmd} \b {c \d }\e \f \g
\StrMid{\a\b{c\d}\e\f\g\h}{3}{4}[\cmd]
          \detokenize\expandafter{\cmd} {c \d }\e

```

La macro \StrGobbleLeft

```

\noexploregroups
\StrGobbleLeft{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \f
          \exploregroups
\StrGobbleLeft{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \d \e

```

La macro \StrGobbleRight

```

\noexploregroups
\StrGobbleRight{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \a
          \exploregroups
\StrGobbleRight{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \c

```

La macro \StrLeft

```

\noexploregroups
\StrLeft{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \a \b {c \d \e }
          \exploregroups
\StrLeft{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \c

```

La macro \StrRight

```

\noexploregroups
\StrRight{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \b {c \d \e }\f
          \exploregroups
\StrRight{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \d \e

```

La macro \StrChar

```

\noexploregroups
\StrChar{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} {c \d \e }
          \exploregroups
\StrChar{\a\b{c\d}\e\f}{3}[\cmd]
          \detokenize\expandafter{\cmd} \c

```

La macro \StrCount

```

\noexploregroups
\StrCount{\a1{\a2{\a3\aa}\a5}\a6\aa}{\a} 3
          \StrCount{\a1{\a2{\a3\aa}\a5}\a6\aa}{2} 0
          \exploregroups
\StrCount{\a1{\a2{\a3\aa}\a5}\a6\aa}{\a} 7
          \StrCount{\a1{\a2{\a3\aa}\a5}\a6\aa}{2} 1

```

La macro \StrPosition

```

          \noexploregroups
\StrPosition[3]{\a0\{a{2\{a3}4}\}\a5\{a6}\{a\}} 6
\StrPosition[4]{\a0\{a1\{a{3\{a4}5}\}\a6\{a7}\{a\}} 8
\StrPosition[1]{\a0\{a1\{a{2\{a3}4}\}\a5\{a6}\{2\}} 0
                           \exploregroups
\StrPosition[3]{\a0\{a1\{a{2\{a3}4}\}\a5\{a6}\{a\}} 1
\StrPosition[4]{\a0\{a1\{a{2\{a3}4}\}\a5\{a6}\{a\}} 2
\StrPosition[1]{\a0\{a1\{a{2\{a3}4}\}\a5\{a6}\{2\}} 1

```

La macro \StrCompare

La commande \StrCompare n'est pas affectée par le mode d'exploration.

```

          \comparenormal
\StrCompare{\a\{b1\}\c2}{\a\b1\c2} 2
\StrCompare{{1\{a2}3}}{{1\{a2}3}} 0
\StrCompare{{1\{a2}3}{1\{a23}} 1
\StrCompare{\a\{b\c\}}{\a\{b\c\}\d} 0
\StrCompare{{\a}\b}{\a\b} 1
          \comparerestrict
\StrCompare{\a\{b1\}\c2}{\a\b1\c2} 2
\StrCompare{{1\{a2}3}}{{1\{a2}3}} 0
\StrCompare{{1\{a2}3}{1\{a23}} 1
\StrCompare{\a\{b\c\}}{\a\{b\c\}\d} 3
\StrCompare{{\a}\b}{\a\b} 1

```

La macro \StrRemoveBraces

```

          \noexploregroups
\StrRemoveBraces{\a1\{b2\{c3\{d4\}}}\e5}{[\cmd]}
\detokenize\expandafter{[\cmd]} \a 1\b 2\c 3\{d 4\}\e 5
          \exploregroups
\StrRemoveBraces{\a1\{b2\{c3\{d4\}}}\e5}{[\cmd]}
\detokenize\expandafter{[\cmd]} \a 1\b 2\c 3\d 4\e 5

```